



Food and Drug Administration
10903 New Hampshire Avenue
Document Control Center – WO66-G609
Silver Spring, MD 20993-0002

September 26, 2014

Spacelabs Healthcare
c/o Mr. Thomas Kroenke
Speed To Market, Inc.
PO Box 3018
Nederland, CO 80466

Re: K141113

Trade/Device Name: Ontrak (90227) Ambulatory Blood Pressure Monitor
Regulation Number: 21 CFR 870.1130
Regulation Name: System, Measurement, Blood-pressure, Non-Invasive
Regulatory Class: Class II
Product Code: DXN
Dated: August 26, 2014
Received: August 28, 2014

Dear Mr. Kroenke:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA).

You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical

device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

<http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

<http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm> for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

<http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>.

Sincerely yours,

Melissa A. Torres -S

For Bram D. Zuckerman, M.D.
Director
Division of Cardiovascular Devices
Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosure

Indications for Use

510(k) Number (if known)

K141113

Device Name

Spacelabs Model OnTrak (90227) Ambulatory Blood Pressure (ABP) Monitor

Indications for Use (Describe)

The Spacelabs Model OnTrak (90227) Ambulatory Blood Pressure (ABP) Monitor is a small, lightweight unit designed to take blood pressure and heart rate measurements for a 24 hour, 48 hour, or longer period. These measurements are recorded in the monitor and may be transferred to Spacelabs ABP analysis systems.

Type of Use (Select one or both, as applicable)

☒ Prescription Use (Part 21 CFR 801 Subpart D)

☐ Over-The-Counter Use (21 CFR 801 Subpart C)

PLEASE DO NOT WRITE BELOW THIS LINE – CONTINUE ON A SEPARATE PAGE IF NEEDED.

FOR FDA USE ONLY

Concurrence of Center for Devices and Radiological Health (CDRH) (Signature)

This section applies only to requirements of the Paperwork Reduction Act of 1995.

DO NOT SEND YOUR COMPLETED FORM TO THE PRA STAFF EMAIL ADDRESS BELOW.

The burden time for this collection of information is estimated to average 79 hours per response, including the time to review instructions, search existing data sources, gather and maintain the data needed and complete and review the collection of information. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden, to:

Department of Health and Human Services
Food and Drug Administration
Office of Chief Information Officer
Paperwork Reduction Act (PRA) Staff
PRASStaff@fda.hhs.gov

“An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB number.”

510(k) Summary

510(k) Number: K141113

Submission Date: 26 September 2014

Submitter: Spacelabs Healthcare Ltd.
1 Harforde Court
John Tate Road
Hertford
SG13 7NW
United Kingdom

Submitter Contact: Spacelabs Healthcare
35301 SE Center St
Snoqualmie, WA 98065

Mr. Al Van Houdt
Spacelabs Healthcare
Phone: +1 (425) 363- 5970
Fax: +1 (425) 363-5762
Email: al.vanhoudt@spacelabs.com

Application Correspondent: Thomas Kroenke
Speed To Market, Inc.
PO Box 3018
Nederland, CO 80466 USA
tkroenke@speedtomarket.net
303 956 4232

Manufacturing Site: Spacelabs Healthcare
35301 SE Center St
Snoqualmie, WA 98065

and/or

Spacelabs Healthcare Medical Equipment (SUZHOU) Co., Ltd.
Building 30, West Wing
ChuangTou Industrial Square
Yang Xian Road, SIP
Suzhou, Jiangsu, China 215122

Trade Name: Spacelabs Model OnTrak (90227) Ambulatory Blood Pressure Monitor

Classification Name: System, Measurement, Blood-pressure, Non-Invasive

Classification Regulation: 21 CFR §870.1130

Product Code: DXN

510(k) Summary

***Substantially
Equivalent Devices:***

<i>New Spacelabs Model</i>	<i>Predicate 510(k) Number</i>	<i>Predicate Manufacturer / Model</i>
Spacelabs Model OnTrak (90227) Ambulatory Blood Pressure Monitor	K103732	Spacelabs Model 90217A Ambulatory Blood Pressure (ABP) Monitor

Device Description:

The Spacelabs Model OnTrak (90227) Ambulatory Blood Pressure (ABP) Monitor (Spacelabs OnTrak) is a small, lightweight unit designed to take non-invasive blood pressure (NIBP) and heart rate (HR) measurements for a 24 hour, 48 hour, or longer period. These measurements are recorded in the monitor and may be transferred to Spacelabs ABP analysis systems.

The Spacelabs OnTrak does not have any physiological alarms, but does have an audible low battery indicator. The Spacelabs OnTrak utilizes the same NIBP cuffs as the predicate device.

Intended Use:

The Spacelabs Model OnTrak (90227) Ambulatory Blood Pressure (ABP) Monitor is a small, lightweight unit designed to take blood pressure and heart rate measurements for a 24 hour, 48 hour, or longer period. These measurements are recorded in the monitor and may be transferred to Spacelabs ABP analysis systems.

***Technology
Comparison:***

The Spacelabs OnTrak employs the same technological characteristics as the predicate device.

<i>Characteristic</i>	<i>Predicate Device</i>	<i>Proposed Device</i>
<i>Measurement Method</i>	Oscillometric	Same
<i>Measurement Mode</i>	Automatic or Manual	Same
<i>Measurement Time</i>	Typically 35 to 50 seconds	Same
<i>Systolic Pressure Range</i>	60 to 260 mmHg	Same
<i>Diastolic Pressure Range</i>	30 to 200 mmHg	Same
<i>Manometer Accuracy</i>	0 - 260 mmHg: ± 2 mmHg ± 1 digit 260 - 300 mmHg: ± 3 mmHg ± 1 digit	0 - 300 mmHg: ± 3 mmHg or 2 %, whichever is greater
<i>Maximum Cuff Pressure in normal operation</i>	270 mmHg	Same

510(k) Summary

Summary of Performance Testing:

Software

The Spacelabs OnTrak software was designed and developed according to a robust software development process, and was rigorously verified and validated. Software information is provided in accordance with internal requirements and the following standards and guidance documents:

- *FDA guidance: The content of premarket submissions for software contained in medical devices, 11 May 05;*
- *FDA guidance: General principles of software validation; Final guidance for industry and FDA staff, 11 Jan 02;*
- *IEC 62304: 2006, Medical device software – Software life cycle processes.*

Test results indicate that the Spacelabs OnTrak software complies with its predetermined specifications and the applicable standards and guidance documents.

Electrical Safety

The Spacelabs OnTrak was tested for performance in accordance with the following standards:

- *IEC 60601-1: 2005, Medical electrical equipment – Part 1. General requirements for basic safety and essential performance.*
- *UL 60601-1: 2006, Medical electrical equipment, Part 1: Particular requirements for safety.*

Test results indicate that the Spacelabs OnTrak complies with its predetermined specifications and the applicable standards.

Electromagnetic Compatibility

The Spacelabs OnTrak was tested for performance in accordance with internal requirements and the following standards:

- *IEC 60601-1-2: 2007, Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral standard: Electromagnetic compatibility – Requirements and tests.*

Test results indicate that the Spacelabs OnTrak complies with its predetermined specifications and the applicable standards.

510(k) Summary

Performance Testing – Bench

The Spacelabs OnTrak was tested for performance in accordance with internal requirements and the following standards:

- *IEC 60601-1-6: 2010, Medical electrical equipment – Part 1-6: General requirements for basic safety and essential performance – Collateral standard: Usability.*
- *IEC 60601-1-11: 2010, Medical electrical equipment – Part 1-11: General requirements for basic safety and essential performance – Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment.*
- *IEC 62366: 2007, Medical devices – Application of usability engineering to medical devices.*
- *IEC 80601-2-30: 2009, Medical electrical equipment – Part 2-30: Particular requirements for the basic safety and essential performance of automated noninvasive sphygmomanometers.*
- *ISO 81060-2: 2009, Non-invasive sphygmomanometers – Part 2: Clinical investigation of automated measurement type.*

Test results indicate that the Spacelabs OnTrak complies with its predetermined specifications and the applicable standards.

Conclusion

Verification and validation activities were conducted to establish the performance and safety characteristics of the Spacelabs OnTrak. The results of these activities demonstrate that the Spacelabs OnTrak is as safe, as effective, and performs as well as or better than the predicate device.

Therefore, the Spacelabs OnTrak is considered substantially equivalent to the predicate device.